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Graduate School

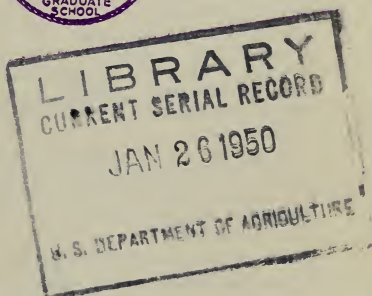
Spring Semester

Schedule of Classes

1949-50



29th Year



REGISTRATION SCHEDULE

TIME: Jan. 28, 9 to 5

Jan. 30-Feb. 3, 9 to 6:30

Feb. 4, 9 to 5

Late registration fee charged after
February 4

PLACE: The Patio, Administration Bldg.
U. S. Department of Agriculture

Class Schedule and Supplement

to 1949-50 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the **1949-50 Bulletin**. Counselors and training officers of your agency have a copy which you may examine. A limited number of these **BULLETINS** is available for distribution to those who did not receive copies in the fall. Write or call in person. **Please do not telephone.**

Additional Courses: The School welcomes suggestions for courses not included in this Schedule and will make every effort to organize courses for which there is sufficient interest. Address suggestions to the Registrar.

Counseling on courses and programs of study is available at all times. Members of the School staff are glad to assist students in planning their work.

Registration: begins January 28 (The Patio, Administration Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after February 17, except with special permission of instructor and Registrar. Registration closes in a course when the maximum for that class is reached.

Late Registration: After February 4, a \$2.00 per course late registration fee will be charged.

Business office, Room 1031, South Agriculture Building, will be open from 9:00 a.m. to 6:20 p.m., Monday through Friday.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 1:00 p.m. to 6:30 p.m., January 30 through February 3 inclusive, and from 2:00 p.m. to 7:30 p.m., February 6 through February 10 inclusive. Open Saturdays, January 28 and February 4, from 9:00 a.m. to 5:00 p.m.

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., February 17. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be given at the time of registration.

Classes begin during the week of February 6, end the week of May 15. All classes meet in the evening, unless otherwise indicated.

Graduate School, Department of Agriculture
Washington 25, D.C.

Please send me your 1949-50 BULLETIN.

Name.....:.....

Street.....

City..... **Zone**
No.....

Explanation: Basic information about each course is given in the following order: course number, title, semester hours of credit, instructor, day and hour of class meeting, fee, and page of **1949-50 Bulletin** on which description may be found. The first half and the second half of a course are indicated by a and b respectively.

ACCOUNTING

352^a. Principles of Accounting—First Half (3) Marshall
Tu 6-7 and Th 6-9 \$24 p. 76

352^b. Principles of Accounting—Second Half (3) Rowe
M 6-9 and W 6-7 \$24 p. 76

353^b. Intermediate Accounting—Second Half (3) Hord
M 6-9 \$24 p. 77

354. Federal Government Accounting (3) Mason W
6-9 \$24 p. 77
- 642^b. Cost Accounting (3) D'Alessandro Tu 6-9 \$27
p. 77
- 646^b. Advanced Accounting Problems (3) Nolan M 6-9
\$27 p. 78

ADMINISTRATION AND ADMINISTRATIVE TECHNIQUES

BUDGETARY AND FISCAL MANAGEMENT

101. Business Mathematics (2) Botts Th 6-8 \$16
p. 48
110. Federal Auditing Procedure (2) Cruikshank M
6-8 \$16 p. 48
210. Advanced Federal Auditing Procedure (2) Collins
Tu 6:15-8:15 \$16 p. 49
112. Federal Accounting Procedure (3) Tierney M 6-9
\$24 p. 49
116. Federal Budgetary Procedure (2) Struttman Tu
6-8 \$16 p. 49
636. Budgetary and Financial Administration: Budget
Execution (2) Roberts and Staff Th 6-8 \$18 p. 71

GENERAL ADMINISTRATION

108. Administrative Procedure (2) Hickey Tu 6-8
\$16 p. 48
208. Advanced Administrative Procedure (2) Moseley
M 6-8 \$16 p. 48
217. Advanced Records Management (2) Donaldson,
Luttrell, Lando Tu 6-8 \$16 p. 51
341. American National Government (2) Smith Tu
6:30-8:30 \$16 p. 67
344. Introduction to Public Administration (3) Brown
W 6-9 \$24 p. 67
413. Office Management (2) Braum M 6-8 \$18 p. 51
421. Writing Procedures and Instructions (2) Allsman,
Pearson M 6-8 \$18 p. 52
519. Work Standards and Work Measurement (2)
McKillop, Williams Tu 6-8 \$18 p. 68
540. Application of Scientific Management in Public
Enterprise (3) Ward Tu 6:15-9:15 \$27 p. 68
545. Top Executive Leadership in Public Administra-
tion (3) Corson Tu 6-9 \$27 p. 68
550. Internal Organization Patterns, Relationships
and Procedures of Public Agencies; Function
of Supervision (3) Taylor M 6-9 \$27 p. 68
- 555^b. Principles and Techniques of O&M Work (2)
Levine, Young W 6-8 \$18 p. 70
570. Management Responsibilities for the Administra-
tive Scientist¹ (2) Torpey To be arranged \$18
p. 67
600. Readings and Papers in Public Administration (3)
Thurston To be arranged \$27 p. 69

LEGAL ADMINISTRATION

- 422^b. Business Law (2) Mostow Tu 6:30-8:30 \$18
p. 77
663. Legal Aspects of Investigation—Criminal Evi-
dence and Procedure (2) Koebel M 6-8 \$18
p. 74

PERSONNEL MANAGEMENT

114. Federal Personnel Procedure (2) Mohagen M 6-8
\$16 p. 50
214. Advanced Federal Personnel Procedure (2) Peter-
son F 6-8 \$16 p. 50
561. Public Personnel Administration (2) Stahl Th
6-8 \$18 p. 71
559. Position Classification I—Elementary (2) Laxton,
Findlay M 6-8 \$18 p. 72
560. Position Classification II—Advanced (2) Laxton,
Findlay Tu 6-8 \$18 p. 72

¹ Given at the Naval Research Laboratory.

629. Tests and Measurements (2) Haggerty Tu 6-8
\$18 p. 72

PROCUREMENT AND PROPERTY MANAGEMENT

637. Management of Governmental Supply (2) Scam-
mahorn M 6-8 \$18 p. 74

ARTS

230. Interior Decoration—I (1) Payne W 6:45-7:45
\$8 p. 112
231. Interior Decoration—II (1) Payne W 8-9 \$8
p. 112
321. Pencil Sketching and Freehand Drawing (2)
Freeman Tu-Th 6-8 \$24 p. 111
323. Portrait Painting in Oil (2) Lazzari M-W 6-8
\$24 p. 111
320. Water Color Painting (2) Lyon M-Th 6-8 \$24
p. 112
334. Modern Painting (2) Richards Tu 6-8 \$16 p.
111
188. Glass Blowing¹ (2) Clark, Clark To be arranged
\$24 p. 113
329. Home Gardening (2) Youngman W 6:15-8:15
\$16 p. 113

BIOLOGICAL SCIENCES

210. Systematic Botany—Identification Techniques (2)
Blake M 6-8 \$16 p. 20

LANGUAGES AND LITERATURE

ENGLISH AND LITERATURE

51. English for Foreign Students² (non-credit) Young
Th 6-8 \$16 p. 23.
118. Practical English Usage (2) Samson Th 6-8 \$16
p. 23
119. Vocabulary Building (2) Murphy Th 6-8 \$16
p. 23
222^a. English Composition (3) Miller Tu 6-9 \$24 p.
22
222^b. English Composition (3) Harmon Tu 6-9 \$24
p. 22
223. Descriptive English Grammar (2) Harman Th
6-8 \$16 p. 23
330^b. Great Books (2) Ruppert Tu 6-8 \$16 p. 23

Speech

229. Public Speaking (2) Beauchamp \$16 and \$1.50
laboratory fee Tu 6-8 p. 24
567. Principles of Persuasion (2) Beauchamp W 6-8
\$18 p. 24
234. Correction of Speech Dialect² (2) Emery Tu 6-8
\$16 p. 24
305. Radio—Writing and Speaking (2) Rowell M 6-8
\$16 and \$1.50 laboratory fee p. 25
206. Techniques of Community Dramatics (2) White
M 6-8 \$16

WRITTEN PRESENTATION

230. Creative Writing—Essay, Poetry, Drama (2) Holt
Tu 6:30-8:30 \$16 p. 26
237. Government Printing Procedure (2) Anderson
Th 6-8 \$16 p. 27
250. Interpretive Writing on Official Action (2) Mc-
Clarren and Gilstrap W 6:15-8:15 \$16 p. 27
360. Advanced Practice in Editing (2) Miller and Spe-
cialists W 7-9 \$16 p. 26
410. Creative Writing Workshop (2) Holt Th 6:30-8:30
\$18 p. 27

¹ Given at the Naval Research Laboratory.

² Given at the Pan American Union.

FOREIGN LANGUAGES

- 253^a. Elementary French (3) DeMarne M 6-9 \$24 p. 30
 253^b. Elementary French (3) Arnould Tu 6-9 \$24 p. 30
 254^b. Intermediate French (3) Arnould Th 6-9 \$24 p. 30
 255^b. French Conversation (2) DeMarne W 6-8 \$16 p. 30
 259^a. Elementary German (3) Ponti Th 6-9 \$24 p. 30
 259^b. Elementary German (3) Mr. Lederer M-Th 6-7:30
 \$24 p. 30
 260^b. Intermediate German (3) Mrs. Lederer W 6-9
 \$24 p. 30
 60. Elementary Scientific German¹ (non-credit) Secre-
 ton Th 4:30-6:30 \$16 p. 31
 270^b. Elementary Italian (3) Evangelist Tu 6-9 \$24
 p. 31
 295^a. Elementary Russian (3) Schuler M 6-9 \$24 p. 31
 295^b. Elementary Russian (3) \$24 p. 31
 Section I Tarakus W 6-9
 Section II Korenev Rockwell M 6-9
 296^b. Intermediate Russian (3) Saharov Tu 6-9 \$24
 p. 31
 299^b. Advanced Russian (3) Saharov Th 6-9 \$24 p. 31
 300^a. Elementary Spanish (3) Th 6-9 \$24 p. 32
 300^b. Elementary Spanish (3) \$24 p. 32
 Section I E. Jaffe Th 6-9
 Section II Iglesia M 6-9
 Section III² Ysita M-W 6-7:30
 301^b. Intermediate Spanish² (3) Garcia-Tunon Tu 6-9
 \$24 p. 32
 302^b. Spanish Composition and Conversation (2) G.
 Supervia Th 6-8 \$16 p. 32
 574^b. Advanced Spanish Conversation and Literature
 (2) R. Supervia Th 6-8 \$18 p. 32

LETTER WRITING

120. Government Letter Writing (2) Samson F 6-8
 \$16 p. 51

LIBRARY SERVICE

71. Introduction to Library Techniques (non-credit)
 Devereaux \$16 p. 28
 Section I Tu 7-9
 Section II Th 7-9

MATHEMATICS AND STATISTICS

1. Review of Freshman Mathematics³ (non-credit)
 Kaplan (To be arranged) \$24 p. 38
 102. Algebra (3) \$24 p. 38
 Section I¹ White M-Th 3:50-5:20
 Section II³ Kaplan M-W 4:10-5:40
 Section III⁴ Kaplan Tu-Th 4:40-6:10
 104. Trigonometry (2) \$16 p. 38
 Section I Rhodes Tu 6:30-8:30
 Section II¹ Gibson W 3:30-5:30
 105. Analytic Geometry¹ (4) Gibson To be arranged
 \$32 p. 39
 106. Analytic Geometry (2) Rhodes Th 6:30-8:30 \$16
 p. 39
 206^b. Calculus (4) \$32 p. 39
 Section I Greville Tu-Th 6-8
 Section II¹ Jackson To be arranged
 502^b. Differential Equations (2) Greenwood M 6-8 \$18
 p. 39
 715^b. Applications in Engineering Mathematics (2)
 Cook Tu 6:45-8:45 \$18 p. 39
 110. Graphic Methods of Presenting Statistics (2)
 Hainsworth, Guidry M 6-8 \$16 p. 40
 126^a. Introductory Statistics (2) Rauchsvalbe W 6-8
 \$16 p. 40
 126^b. Introductory Statistics (2) \$16 p. 40
 Section I Purves Tu 6:15-8:15
 Section II Larsen W 6:15-8:15

¹ Given at the Naval Research Laboratory.

² Given at the Pan American Union.

³ Given at the Naval Ordnance Laboratory.

⁴ Given at the Naval Gun Factory.

- 127^b. Principles of Statistical Analysis (3) Stauber
Tu-Th 6:00-7:30 \$24 p. 41
318. Machine Tabulation (2) Kaufman W 6:30-8:30
\$16 p. 41
319. Advanced Application of Tabulating Equipment
(2) Kaufman F 6:30-8:30 \$16 p. 41
- 340^b. Introduction to Experimental Statistics (2) Hen-
dricks Th 6-8 \$16 p. 43
- 400^b. Introduction to Mathematical Statistics (3)
Tepping Tu-F 7-8:30 \$27 p. 41
- 548^b. Statistical Analysis of Economic Relationships (2)
Been M 6:15-8:15 \$18 p. 44
561. Advanced Theory of Electronic Digital Computing
Machines (2) Cannon and Associates Tu 6:30-
8:30 \$18 p. 43
708. Linear Algebra (3) Daly Tu-Th 6-7:30 \$27 p. 42
- 723^b. Design of Experiment (2) Youden W 6-8 \$18
p. 44
- 735^b. Theory of Sample Surveys (2) Hansen, Hurwitz,
Steinberg W 7:30-9:30 \$18 p. 42
751. Theory of Measure (3) Daly Tu-Th 7:30-9:00
\$27 p. 45
021. Seminars in Sampling and Statistical Inference
(non-credit) Boddie, Deming To be arranged
p. 45

PHOTOGRAPHY

70. Popular Photography (non-credit) McHenry W
7-9 \$16 p. 114
192. Fundamentals of Photography I (2) Koch M 6-8
\$16 p. 114
193. Practice of Photography I (2) Beales W 6-8 \$16
and \$3 laboratory fee p. 115
194. Fundamentals of Photography II (2) Cobb W
6-8 \$16 p. 115
195. Practice of Photography II (2) Beales Tu 6-8
\$16 and \$3 laboratory fee p. 115
271. Color Photography II—Printing Techniques (2)
Mohr Th 6-9 \$24 and \$7.50 laboratory fee p. 115
- 360^b. Portrait Photography (2) Purdy F 6-8 \$16 and
\$4 laboratory fee p. 116
011. Photographic Seminar (non-credit) Purdy and
Officers of the Seminar p. 116

PHYSICAL SCIENCES

- 100^b. College Chemistry¹ (4) Williamson Tu-Th 6:30-
9:00 \$32 and \$7.50 laboratory fee p. 55
- 400^b. Advanced Organic Chemistry (2) Bowen Th 6-8
\$18 p. 56
- 349^b. Physical Chemistry (2) Hamer Tu 6-8 \$16 p. 56
312. Chemistry of Foods—Fruits and Vegetables (2)
Beacham M 6:30-8:30 \$16 p. 56
- 315^b. Elementary Biochemistry (2) Johnston Th 6-8
\$16 p. 56
641. Advanced Dynamic Geology (3) Pecora and Spe-
cialists Tu-Th 4:30-6:30 \$27 p. 57
156. Soil Conservation (2) Steele Th 6:15-8:15 \$16
p. 57
531. Soils: Their Morphology, Genesis, and Classifica-
tion (3) Nikiforoff Tu-Th 6-7:30 \$27 p. 58
526. Advanced Physical Metallurgy (2) Loring Tu
6:30-8:30 \$18 p. 58
162. Principles of Meteorology (2) Johnson Tu 6-8
\$16 p. 58
- 310^b. Methods and Application of Climatology (2)
Jacobs and Specialists M 6-8 \$16 p. 59
- 533^b. Hydrology (3) Linsley Th 6-9 \$27 p. 59
580. Advanced Weather Analysis and Forecasting (3)
Gray, Winston Tu 6-10 \$27 and \$4 laboratory fee
p. 59
601. Ultrasonics² (3) Hiedemann To be arranged \$27

¹ Given at Wilson Teachers College.

² Given at the Naval Ordnance Laboratory.

SHORTHAND

- 89. Review of Gregg Shorthand (non-credit) Stephens
Tu-Th 6-7:30 \$24 p. 54
- 129. Beginning Gregg Shorthand I (3) Wilkey M-W-F
6-7 \$24 p. 54
- 130. Beginning Gregg Shorthand II (3) Wilkey M-W-
F 7:10-8:10 \$24 p. 54
- 225. Gregg Shorthand, 60 to 80 Words (3) Morgan
Tu-Th 6-7:30 \$24 p. 54
- 226. Gregg Shorthand, 80 to 100 Words (3) Rowland
M-Th 6-7:30 \$24 p. 54
- 231. Gregg Shorthand, 100 to 130 Words (3) Harlin
Tu-Th 6-7:30 \$24 p. 54
- 335. Introduction to Reporting—Gregg, 130 to 150
Words (4) Foote M-Th 6:30-8:30 \$32 p. 54
- 336. Reporting—Gregg, 150 Words and Up (4) Panizcko
Tu-F 6:30-8:30 \$32 p. 54
- 339. Shorthand in Spanish¹ (2) Maymi Tu 6-8 \$16

SOCIAL SCIENCES

GENERAL ECONOMICS

- 201^b. Principles of Economics (3) Burroughs Tu 6-9
\$24 p. 83
- 728. Seminar in International Financial and Trade
Policies (2) Zaglits Th 6-8 \$18 p. 85
- 712. Research Methods in Social Sciences (2) Stine
and Specialists W 6-8 \$18 p. 85

AGRICULTURAL ECONOMICS

- 407^b. History of Agricultural Policy in the United States
(2) Edwards To be arranged \$18 p. 89
- 412. Risk and Insurance (3) Barber, Horton, Botts
M 6:30-9:30 \$27 p. 87
- 416. Agricultural Cooperation (3) Hedges, Johnson
W 6-9 \$27 p. 89
- 721. Seminar in Agricultural Finance (3) Wall, Eng-
berg Tu-Th 6:30-8:00 \$27 p. 88
- 722. Seminar in Marketing (2) Trelogan and Specialists
Tu 6-8 \$18 p. 88

CONSUMPTION ECONOMICS

- 325. Managing Personal Finances (2) Larsen, Botts,
Koebel Tu 6:15-8:15 \$16 p. 95

COOPERATIVE EXTENSION EDUCATION

- 596. Development of Programs (2) Hearne To be
arranged \$18 p. 95

HEALTH AND MEDICAL SERVICES

- 555. Principles and Methods of Teaching in Public
Health Nursing (3) Corcoran Beginning Febru-
ary 2 Tu-Th 6:10-7:30

HUMAN RELATIONS

- Point 4 and Contemporary National Cultures p. 93
- 105. Introduction to the Study of Human Relations (2)
Longmore M 6-8 \$16 p. 90
- 306. Philosophy—An Analysis of The American Tradi-
tion (3) Brewster Th 6-9 \$24 p. 90
- 310. Farm Labor and Tenure Problems (2) Ducoff,
Harris, M 6-8 \$16 p. 91
- 421. Rural Sociology (3) Longmore W 6-9 \$27 p. 91
- 433. Social Psychology (3) Ensminger Th 6-9 \$27
p. 92
- 446. The Labor Force in the United States (3) Ducoff
Th 6-9 \$27 p. 92
- 470. Introduction to General Semantics (2) Saunders
W 7:30-9:30 \$18 p. 91
- 40^b. General Semantics Workshop (non-credit) Saun-
ders Th 7:30-9:30 \$5 p. 91

¹ Given at the Pan American Union.

500. **Child and Adolescent Psychology** (2) Brunschwig
W 6:30-8:30 \$18 p. 92
511. **Population Research Methods and Analyses** (3)
Hagood M 6-9 \$27 p. 92
516. **The Cultural Regions of the United States** (3)
Taylor, Raper M 6-9 \$27 p. 94
43. **Personal Development** (non-credit) Galvin, Proven-
sen Tu 6-8 \$16 p. 28

INTERNATIONAL RELATIONS

- National and International Policies Affecting
Agriculture** p. 100
434. **Basic Factors in the Relations Between States** (2)
Spitzer M 6-8 \$18 p. 101
440. **Problems of the Balkans and Middle East** (3)
Whipple and Associates Tu 6-9 \$27 p. 101
745. **The United Nations: Organization and Functions
in Relation to American Policies** (3) Calder-
wood Tu 6-9
820. **Seminar in American Foreign Relations, Policies
and Practices** (3) Johnson Tu 6-9 \$27 p. 99

TRANSPORTATION

462. **Traffic Management** (2) Perrin W 6-8 \$18
p. 103
510. **Transportation Research—Materials and Tech-
niques** (2) Church Tu 6-8 \$18 p. 104

TECHNOLOGY

ENGINEERING

325. **Basic Mechanical Drawing II** (2) Wiemer Tu-F
6-8 \$24 and \$3 laboratory fee p. 112
341. **Architectural Drafting II** (2) Wiemer M-Th 6-8
\$24 and \$2.50 laboratory fee p. 113
343. **Architectural Drafting IV** (2) Wiemer M-Th 6-8
\$24 and \$2.50 laboratory fee p. 113
- 510^b. **Analysis of Statically Indeterminate Structures**
(2) Fischer W 6-8 \$18 p. 107
520. **Theory and Design of Welded Structures** (2)
Morgan M 6-8 \$18 p. 107
552. **Recent Developments in Materials Engineering** (2)
Klatzko, Smith, and Commodity Experts Tu 7-9
\$18 p. 107
554. **Protecting Engineering and Scientific Develop-
ments Through Patents** (2) Kramer Th 6-8
\$18 p. 108
- 702^b. **Electric Utility Engineering** (2) Jessel M 6-8
\$18 p. 106

SURVEYING AND MAPPING

219. **Computation and Adjustment of Geodetic Obser-
vations** (3) Rappleye M 6-9 \$24 p. 109
213. **Photogrammetry II** (2) Higginson W 7-9 \$16
p. 110
371. **Photogrammetry IV** (2) Tewinkel, Colner M-W
6-8 \$16 p. 110
25. **Introduction to Cartography** (non-credit) Johnson
W 6:30-8:30 \$16 p. 110
- 214^b. **Cartography** (2) Everett Th 6-8 \$16 p. 110
240. **Methods of Map Reproduction** (2) Delaney and
Specialists W 7-9 \$16 p. 111

Free Lecture Series

Point 4 and Contemporary National Cultures
**National and International Policies Affecting
Agriculture**

See 1949-50 BULLETIN and special
announcements for details